## SEQ ID NO:16

## Rat Smooth Muscle Myosin Heavy Chain Gene Sequence (-4,216 to +11,795)

Nucleotide 1 corresponds to -4,216 bp relative to the SM-MHC transcription start site

	AGATCTTAAA	ACACATCAAC	CTGGGCTGAG	GGGATGTGTG	TCTCTGTGTC	TGTGTATGCA	60
	CATGCATTTG	AGGCCAGATG	AAAATGTCAG	ATGTCCTCTC	ACTGCTTTAT	TCCCTTGAGA	120
	CAGGGTCCCT	CACTGAACTT	GTTGGAGCTA	TGCTGGTAGC	CAGCAAGCCC	CAGTGGCCTT	180
10	CCTGTCTCTA	TCTCACACAG	CACAATATGT	GTGGCCATGC	TCCACTTTTT	TACATGGAAA	240
	TTGGGGTCTT	CCAACTGGGG	TTCTCATTTG	TGCAGTGACA	CTCTTCCCCA	CTGAGCCATC	300
	TCCTCAGGCC	AGCTGATATA	TTTTTAAATA	ATTAAATATT	TAGCACATGC	CTTTAGAAGC	360
	CAATAGCTAT	TTAAAGCTGT	TTGCTTAAAA	AAAAAAAAA	AAAAAAGACT	TCATTATCCC	420
	AACACTTATG	AGGGAGAGAC	AATAATTCCA	AAACCAGAAC	CAGCCAGGGT	ACACAGTGAG	480
15	ACTTTATTTA	AAAAAAAAA	AAAAAGAAAG	AAAGAAAAA	AAAAGAAAAA	GAAAAAAAAA	540
	GGCTCCAAAG	AGAAATTTCC	CCTTCATCAT	CTAATCACAA	GAAAACAATT	TATTTATTTT	600
	GACATCACTC	AGTCCAAAGG	AGCTTTTTGT	AAAGTGACTT	CTCTTCTTAA	AATAAGTGAC	660
	CCTTCCCAAC	CACCAAAAAC	AAAACAGAAA	CCTCTGCCCT	GTTCTAGAGT	CCTTTTGAAG	720
just.	ACTTCAGATA	CCTGAAGAGT	GGACAGATAT	TTACCGAGTG	ACTTAAATGA	ACATACTGTC	780
20	CCTGGGTACT	GCTCAAGCAT	GCCAGGAGAG	CATGGATGGT	TTATGCAAGG	CTGGCACTGT	840
	CATTAACAAC	TCAGTAAGGC	GGAGAAGACA	GAGAGCCTCT	CCTAAGACAA	TGGCACATAA	900
ĪЛ	GGACATGGGT	AACCCCAGAG	GTTCCCGGCT	AGTACTTAGC	AGAGCTGAGA	TCAGACTTGG	960
16.1	GCCTCTGTGC	TCGCTTGCCT	AGTGGGCAAC	ACTCAAGACT	GGGGTAAACA	ATAAGTTGAT	1020
24	CTGGGATATG	GCTCAGTAAT	CACACTGAGA	ATTCAACACT	GGGAAGGCAG	AGGAGGATCC	1080
25	CTGGGATTGC	TGCCTGGCTC	TCTAGCAGCC	TAGCAGAATC	AACAAACTCC	AGGTTCAGTG	1140
154	AGAGATGCTC	ACAAAATAAA	ATGGAGGAGC	AACTGAACAC	ACTCAGTGTT	GACCCACACA	1200
17	CACACTAAAG	AACACGTGTA	CCACACAGAC	ACAGACACAG	GATAACCTAC	CCATGTTGTG	1260
11	TATGGACTCA	GCCAGCCCAG	GTTGGAAACT	CAGTTCCTCT	GTTAACTCTT	TTCAAACCTG	1320
	GGTCCTCAGC	GATGTGCTGG	GGAACCTACT	TCACGGCATT	ATTCTGGGCA	TTAGATGTAA	1380
30⁴	AGGAAGCAGT	AAAGTTTCCC	TTTTCTTGAC	TGAGGTGATG	CGAGAATGAG	GGCCTGAATT	1440
T.J	CCATCTCTAG	GACTCACATA	AAGACACCCA	GACTGCACTG	GCCAGTAAGC	CTCACCTATG	1500
10m	CCTCCAAGCC	TGGCTGTGAG	AGACTGTCTC	AAAAACAAAG	TAAAAACAAC	AAAATCAATG	1560
	TCAGATGTGC	ACACATCGAA	TCCCAGCATG	TGTACGGCAT	GCTTGCAGTC	AGCCTTGTTT	1620
17.1	ACAGAGAGTT	CTAGGCCAAC	CAGCTATACA	CAGTGAGACC	CTGTGGTAGA	CGGCTCCTAA	1680
35	GAACTGACAT	TTGTGACTGA	CAGATGTGCA	CATCTACCAC	ATGCACATCA	CAGTTTCCAT	1740
	TTTACAAAAA	GGTTAACACT	TACTAATTGA	TTAGGGAGTG	GGGCACCCCA	CTGCTACATG	1800
	TGAAAGCCAG	AGAATGATGT	GTTCCAGTCG	GTCAGTTGTG	TCCTTCCACC	ATGTAGGTCC	1860
	TAAAAATGGA	ACTCAAGGCA	GTCTTGGCAG	CAAGTGCTTT	ATCCATAGTG	CCATCTTATT	1920
	GGCCCAGTCT	CCTTATAATG	AAATTATTTG	TGTTTCCAAG	TTGATGTAAT	TCTTTAAAAA	1980
40	TCAGCTGTGC	TCCTTGGAGT	TTGACTTCAC	TGAAGCCTGC	TACAGGAGTG	CCCTTCCTTC	2040
	CTAGCACTAG	GATGGCCAGC	TCTGGGCTGG	TTTCAGACTA	GGGTAGGTGC	AGGTGGGCCC	2100
	TGGGCTTCCC	TCCTTCATTC	CTCCTGGGCT	CAATGCCAAG	CCGGTTTCCA	TTCCTTTTAC	2160
	GTGCACTGCG	AAGAGGCTTT	GGGGAAGCGG	CCTCATCCAT	CATGCAGAGA	GCTCCTCCCC	2220
	CACCTCTACA	GAGAGCCAGC	CAAGCTGCTG	TCCTTGGCTC	TGCTCTGTCC	ACCCTGTGAG	2280 2340
45	GAGGCTGGGA	TGAGGTTGGG	GATGGGGAGG	ATCAGGATTC	AGATGTTTTC	AAGTCTGAGA	2340
	AGCAGGTGAG	CTTGGTCCTA	GAAGAATATG	GAAGGGGTCT	ACTGGGGTTG	AGATATAGAT	2460
	CACTGTATCA	AAGTCAACAG	GGGGGCTGTG	TGGCTTTTTC	ATATCCCAAA	GTCAGCTTGG	2520
	TGCTGGTTTC	CTAGGCTTCC	TGAGTCCGAC	AAAGGTGCAG	TGTGTTAATC	TCACACCACT	2520 2580
	TCAAGGACTG	TTACAAAAAA	AAAATAGGAA	GGAGCTCGAT	TCGCCCCTTT	TTACAGGCAG	2580
50	GGTAACTAAG	AGCCAGTACT	TGCCCATGGT	CCTGCTGTTA	TAAAGAGGCT	CAGTAGACTC	2700
	CCATTCAAAC	AACTGTGCTC	AGAGGCCTTC	TGTCGTCCTG	TGGCCAATTC	CCCTATTGCT	2760
	CTCTGGAGTG	AATATTGGGA	TATTAAACAG	TACTGACCTI	GCTGAGGACC	CTCAGGGTAC	2820
	TCAGCTCTTC	TGGCCTGCAA	AATGGGGCTG	GGACAGGTTG	GCCAGGATCA	TCCTCTGGTT	2820
	GGGAGAACCA	GCTGCACGTG	GGTCTGGAGC	TCTTATTAGI	ACTGGGGTCC	CCATAACGCT	
55	CCATGGGCTC	AGCGGGAGGC	TGCACGGGAC	CATATITAGI	CAGGGGGGAGC	CAGAGCCCCG	3000
	CTGGTATGCC	AAGCTGGGAA	TICTIGITIC	GAGAATTGCC	G CCTGGCCTTT	TTGGGTTGTT GCGCGGGGAG	
	TCCCGCCCAG	GCCCAGGAGG	GAGGACCAGC	CHAGGACCTC	ACTITICATION	ATGGCCTGAG	3120
	CGAGGCGTCC	CCGGCCTGGC	ATGAGGCCAA	L CICIGCCTCC	, MCIICCIIII	AIGGCCIGAG	3120

	TGTGAGTGCA	TGGAGAGTGG	GAGGGAGGGA	GGGAGAGAGG	GAGGAAAGAA	AGCGGGGTGG	3180
	GGGGGTGGGG	GGGTGGGGG	GTGGGGGGGT	GCGGAGAGCA	GAGACAGAGA	CAGAGAGACA	3240
	GAGAGACACA	CAGAGAGAGA	CAGAGAGACA	GAGAGACACA	CAGAGAGAGA	CAGAGACAGA	3300
	CACACACAGA	GAGAGACAGA	CAGACAAAGA	GAGAGACAGA	GACAGAGAGA	CACACACAGA	3360
5	GAGACAGACA	GACAAAAAGA	GAAGAGAGAC	AGAGACTTTA	GGGACGTAAT	CATCACAGGG	3420
-	AAATCAAAGC	TAAGAGTGTG	ATGAAAAGAG	TGTCAGGTCA	GACAAAAGAG	ACAGGGGCCA	3480
	AGATCCGTAC	AGGGCTAAGG	GACACAGAGA	TTGAGAACAC	CGAGTGGTAA	GGGGGGCAGC	3540
	TGACAGCAGG	TCCCCCACAT	TCTCTTAGAG	TCTTAGCATG	CATCCTCCAA	GTGCCATAAC	3600
	GCAGTAGCAA	CCCGCTTTTC	AACGATGCTC	AGAGAAACCA	TGTTATTGGT	CCCAGGCACC	3660
10	CCCCTTCTAC	GGTGAAAGGA	GCTGCAGAGA	ACAAGTTGGA	AAAACAAGTT	TCCCAGCAGT	3720
10	CACACACA	ATGCAGTGAC	TOTOCCOACT	TGTTTTTTT	TTTTTAAGTC	CCCTTCCCCC	3780
	CACAGAGGAI	GCCCCCGGCT	TOTOCCOACT	AACCGGCTTC	GAATCTTAGG	AAGTGGCAGG	3840
	CCCCCGCCCC	GGGGATGAGG	CACACACCC	CCCATCAACT	CTCCAGTATG	TATGAACAGA	3900
	CGAATGAAGA	AATCCAGCTG	CA A MCCCA CCCT	ACCCCAACAA	ATTOTCAAGT	CTCCCTACAG	3960
	AAGAGGTTAA	CCGAATCCCT	GAATGGACCI	AGGGGAAGAA	CTCCCTCCCT	GCAGGGAGCG	4020
15	ACTCTGAACA	CCGAATCCCT	TTTCTCTAAG	GACGCAGGAI	CIGGGIGGCI	ACCTCCTTCC	4080
	AGGCCTGAGG	CTGTGGGTCA	ACTTGCCAGC	AGCCCCCCTG	CGCCTGCGCT	CTCCCACCCC	4140
	CAGAGGCTCT	GTTCCTCACC	TGCAGGGGGC	GCTGGGAAGG	GCAGAGGACC	PAGGGACATC	4200
	GCCCGGCAGT	CACCTCCCCT	TCCCCACCCT	CGGGTAGCGC	TGACTCTATA	AAGCCAGAIG	4200
		_→	transcription s	tart site +1		a.maga.n.aam	4260
20_	TCCGAAGCAT	ACAGAG <u>AGA</u> T	TTGGACCATC	CCAGCCTGGG	ATCAGTGTCA	GATCCGAGCT	4320
	CTCCATCCGG	TGTTCTCCTG	CTAGTCCACC	CCAGTAGCAG	ATCTGTAAGT	AGAAGTTGAT	
pant)	CCCTTAGGGG	CAAGCCTGGG	CGGTGAGCTT	GAGCAGCTTC	TAAAACATCC	TCCAGGGAGT	4380
	GGGGACCCCA	AGGGGTTCTG	ATTGTCATCT	CTTATAAGGA	CAGTGGGAAG	AAGCCCGGTA	4440
U	CAGGACCACC	CTAGACCTCC	CGTGATTACT	CCCATTCTCC	GCACCAAACC	AGCATCCTCA	4500
25	CCTTCCCTAT	GAACAGAACC	ACCTGGGAAA	GTGGGGTAGG	TAATTAAAGG	TTCTGGCCAC	4560
- 104	TGGGCCCAAT	TCCAGGTATT	TTAAGACTAC	AGTCTAAAAA	GCAAACAAAA	TGGCCTACTT	4620
	ΔΔΔΔΔΩΤΔΔΩ	TAGTGACACA	GTGGACAAGT	GAACTGTGGT	GGAAACTGTG	GGTCTGAATT	4680
in	CANATACCAG	TATTGAAAAT	AATAAGAAGT	CTGGGATAAA	TATCCACTGA	ACATCCCCAG	4740
10 -	<b>ΑΛΤΑ</b> ΟΤΟΑΔΑ	ACATGGGTTA	AAGTTTAATG	ACTCTGAACA	CAGGCCGTGT	GTTCTTATTC	4800
301	CACTCCTAAT	GGAATGTGCT	GTTGAAAATT	TACTGGTAAA	CAAAAATGCT	TAATGTTAAA	4860
	TAAGGTCGTT	TCTTCCTCTG	TTACTTCCAA	AACACAAATC	TCCATTAAAA	AGGAACCTTC	4920
in the	TCCACTTTCC	TTGGGCCCCC	AGATGCCCAG	GTGGGTGCTG	AGGCTCCATT	TGCATCCCCC	4980
ILJ.	ACACTCACTC	AGCAGACGAT	GGATTTTGGG	GCTCCTCAGT	GGGAAGGTTA	CTCTCAGGTC	5040
Militar Such	ACACIGAGIG	GCTAGCAGAG	AAATTTATGC	TATTCCAGTT	CAGAATTGGA	GAAGTCTTGC	5100
25	AGGGAGAGGA CAMCMCCACA	AAGCACCCTT	CANAGTTATG	TCTGTCAGAG	AACAGAAAAA	TTTTTTTGA	5160
Fi.	DAGGICCAGA	ANGCACCCII	TCCTTCTACT	ACTAAGAACT	GAAAAACTGC	TGACTTGCTG	5220
1 pills	AAGCCAGGAC	AAGGCIGCII	CTCTTTCCTA	AACTACTCTG	CTTCGTTGGT	TTCCTGGGGG	5280
	GGAAAGAAGG	TTAGTTCAGT	GIGILIGGIA	COTATTTTAC	ACTCAAAGAA	AGACAGGTCT	5340
	AGGTTTTTTT	TTAGTTCAGT	AAIICAAIAI	GCIAIIIIAG	CTTCTTCATC	GCACACTTAA	5400
40	GAAAGTCTCI	CATAACAAGA	AACACTTICI	CITITATOAT	CTTTTTAATC	TCATATACAC	5460
40	CAAGCCAGGT	GCTTTAACAG	CGTTTAGATC	GAACIGGGII	ATTTCTTCC	CTCCTGTTTC	5520
	CTTACCTTGT	AGTGTTTCCA	CIGITITICC	CAAAACCAAA	AIIIGIIGOA	CTCATCTTT	5580
	TGATGGATTC	AGTGTTTCCA	GCTTCCATCA	CITITIGAAG	AMOMITOAMA	TTTCCCTCTC	5640
	ACCAATTTAA	AATGACAGAG	ACTGTCTTT	AAATTTTGTT	magamagaga	TTTCCCTGTG	5700
	GATGTGGTAG	GGTTCCAGGA	GGCTGGCGTG	ATCTCAAACA	TGCCTGGGCC	AAGCCACCCT	5760
45	GGAGAAACCI	GGACTTTTAT	TATCAGATCI	GAAATAGAGC	CTCTTCCGTA	CAAGGTAGTC	5820
	ACTATGGATT	TATCATTACT	TTTCTGTGG	AGGCTGGGCT	GGAGGCAGAC	ATGCCCTTGT	5880
	ATGGTAGTGT	TTTCTATGAG	GCCATTCCCA	GTCCCCCTTG	GCCAATCACC	CAGCCTTTCG	
	ATGCAGCCTC	ACTGGCTTGA	A GTTCTGGGT	A CTTCTCTGTC	TTTCCCTGT	GAGATGGACA	5940
	ATGAAGTTCT	TTTTTTCCTC	TCTTTTCTTC	TTTGGAAGTT	CTATTTGTAT	TTTTTTGGTG	6000
50	GAAATTATAT	TCCACATATO	TAATAAGAAC	GGGTGGTGTT	TACATCTAA	AAACCATTGA	6060
	ATAATTTTGA	A AACAGGATAA	AGACGATCCT	TTTAGAAAAA	TATATCCCG	TTCAAATACT	6120
	CAGAATCAGO	TCTTAACCAC	CATTATTTTGG	CAGGTATGGT	GGCTTGTGTC	TAAAATACTA	6180
	GCACTTGGG	GGCTAAAGC	AGAGAGTTTC	AGGCTAACCT	GGACTGCATA	GCAAGTTCAG	6240
	GCCATCCTG	3 ACTACAGTGC	GAAACACTAT	CTTGGAAAAA	TAAAAAATA	AAAATCAAAA	6300
55	CCCAGCCTA	TGGTACATA	CTTCAATTC	AGCATCTGAC	GTAAACCAG	AAGCACAGCT	6360
	GATTAATGA	A CCCAAAGTC	A GCCTGGGCT	A CCTAAGGAAT	CCTATCTTT	CACAATTTGTT	6420
	GATGCTGTT	TCATTTCC	r GATCACTTT	CCATCTGCAC	3 AATGGGACT	TTGAGAACAG	6480
	CCAGCGTGT	T AATGTTTCTC	TAGCACTTG	C TTAGTCTTC	C GAGAAGTAG	AGATCACTTA	6540
	GCTAGGGTT	T GATCCCCATC	ACTGCAGCA	AAGAGGAAG	A CTCATTAAT	r GGAGTCTTCA	6600
	OCIACOUIT.						

CAGTAGCCCT	TGGAACCAAT	ACTAATAGTC	TTCACTCCAT	TTCATAAATG	TGGGCTTTGA	6660
AAACTTTGTT	CTGTCTATAA	AAGATGGGGG	CTCTTACAAA	CTAAGCTTCT	TGTAACTCCA	6720
GAGCCTAATG	CCCTTTTGGG	AGCTTTCAAT	AGATAACCCA	TGTGAAGGGT	CTGACACAAG	6780
GCTGGCACCA	GCAAAGTTCA	GCAGATGGTA	ATTTATAGTA	ATATGACTAG	GGACGCTTAA	6840
GAGCATATTC	TGTATGACAC	AGCTGATATC	AAGAAACCCA	AACGGTGGCC	TTTCCCCTAA	6900
AGCAGAAACT	CACCCCTAAT	TTTCCTTTAG	TGTAAATCTC	ATAGTGGATT	CTTTGCTCCC	6960
TGGTTCTCTT	TCTGTCACTA	GTGACCTTTT	AGTTACATTG	ATCTATAGGC	TTCAAGGACC	7020
AGGAGGCACA	GAGTCAAGAG	AAAGGCAAGC	AAGAATTTGA	AGGGAGAAGG	AAACCGCTCA	7080
CCACTCTACC	AAGGGGAGGT	CAGGCTACCA	TGATGCTCCT	GCGCTTCAGG	GAATTATCCT	7140
CTCAGAATGG	CCAACAGGGT	AGGGACCTGG	CCTGTTCCAC	TCAGGCCCAT	TTGAACTTTC	7200
TTTCTCTCTCT	ATGGGTCCCT	ACAGATGAAT	TCAGCCCACT	GTAGACTGGA	AGTTCATCTT	7260
TARCACCATC	CAAACGGAAC	ACATACAGAC	CTTCTTTCTT	GTCACTGTCC	CTGAGTCAAG	7320
CACCATAACA	ACTATOTOTO	CCAACCTGCG	AGGGGAAGTT	GCTCAAGATG	CTATGCAAAC	7380
A CTT CCA CCTT	TCCATCCAAC	CCARCUTTCACC	ATCTATGGAT	GGTGGTAGCA	AAGCACTCCT	7440
ACICCAGCII	AAAGAAGAAG	TOTOCOTTOC	TGCCCCTCCC	CTAATGAAGC	GTGCAGTCAG	7500
CAAGCIGAIC	AMAGMATAGC	TOTTOTOTO	CCAAAGGTCA	TTCTTCCCAT	CCCAGGCTCC	7560
1GACAGAGAC	CICAGAAAIG	TOTIAGGICA	TCCATTTTGC	CTCTCTCCAT	ATGCACTACT	7620
AGATTAGCAT	TTTCTCCCTT	TITATITCCC	TTTCTTGGAG	CTCCCCACTC	ANCCCAGGGC	7680
AACAAACATT	CTTTCTTTCT	GGTGTT GGTG	TGAGCTAAAT	CIGGGGACIG	CCTAACAAAC	7740
CTTGCGCTTG	CTAGGCAAGC	GCTCTACCAC	TGAGCIMAMI	CCCCAGCCCC	AAACCCTCCC	7800
ATTCTTAAAT	AGAATTCTAA	ATTITITAAA	GTCAAATTTC AATCTTCACT	AMOREMENT	TATACCCIGGC	7860
ATTTTACAAA	ACATTTTTCA	CCTTATCACA	AGTATTCTGT	MICITITUM MAGGERATION	IMICILIAIA	7920
TCATTGTATG	TTACTTTTTA	TCTGCTACGT	AGTATTCTGT	TACGIATITA	AIMAMMIMIM	7980
CTTGGTGCAT	GATGCCATGT	ATAAATGGCG	CTTGGGGAAG	TACCCGTGTA	CTAGTIGACT	8040
GTTGCCCATC	AGAAATGCCC	AGGACCAGAA	ATGTTCCAGA	GITTICITIT	CTTTTAAATT	8100
CTTTTTGATT	TIGGGATATT	TGCACATAAA	TAATTATATA	TTTGTATATA	AATAATGATA	8160
TATCCTGGAA	ACGAGCACTA	ATTCTTTTGT	TGCCTGTCTT	CTGGGTTTTT	TTTTTTTTTTT	
TCCTTCTTTC	TTTTTGTTCT	TGGCCATCCT	GGAGCTCTCT	GTAGACCAGG	TTGTGCTTGA	8220
ACTATAGAGA	TCCTCCTGCC	TCTGCCTCCC	ACATGCTAAG	ACTAAAGGCA	AGAGCCATCA	8280
CACCCATCTG	TGAGCACAAA	TCTTGATATT	TCACCTTTGC	TTTATACAGA	TGGTTGTATA	8340
GTCAGTCGTT	GTATTCGATG	TTTTTAATTC	TACATTTTCA	CTGTGACCTG	CTACATGAAA	8400
TTCAAATACA	AACTTGTCCA	CTCACACAAT	ATTGGCCCTC	AAAAAGCTGT	GAGCCTTTGA	8460
ACTTTTGGGG	TTAAGAATGT	TTAGCTTGTA	TCCGTATTCT	TCGCTTGTAA	ACTCTCTTCC	8520
TGTAATCACA	TGAGTTCCTA	GCAAAGAGGT	GAATAGATAG	CACATTGGGA	ATCAGCATCT	8580
GTCTCTAAAT	GGTCTTTGAA	AGAAACTGTA	GATACCTGCC	TGGACCAGCC	AGACCTGTGT	8640
CTTAGCACCT	ATTTTAAACA	TTGTTCTACC	TGAGTTGTAA	GATGCAAAAC	ATAGTGGGGC	8700
TCTGAGGGCC	CAAAGGCCCT	GAACAGGGGT	GACCTCAGTT	GTGTGGAATA	GGGAGAAAGA	8760
CAGCAGAAGG	AAGGGAGGAA	AGACGGGCAA	GGAGGGGAAG	GTGTTCATGT	GTATGGCTGC	8820
ATCTAAATAG	AAGCCATGAA	GACTAGCTAT	TGTTTCTCAG	GTCCTTCCAA	CTTGCTTTTG	8880
GAGACAGGAA	CCCTCACCAG	CCTGGAACTT	GCCAAGTAGC	TAATTGGCTG	GCTCTTGACC	8940
CCTAGATCTC	TTTCCCCTCC	ACTCTAACGT	TACAACATAC	AGCTCTCTCT	CTCTCTCTCT	9000
CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCATTTTAT	TTTTTAAAAA	AAATTTATTT	9060
ATTTATTTAT	TTATTTATTT	ATTTATTTAT	TTATTTATTT	CATGGATGTA	ATACCTGTCC	9120
TGTCTCAACC	CCAAAATGGG	CATCGGATCC	CATTCCAGAT	GGTTGTGAGC	CACCATGTGG	9180
TTGCTGGGAA	TTGAACTCAG	GACCTCTGGG	AGAGCAGTCA	GTACTCTTAA	TGCTGAGCCA	9240
TCTCTCTAGC	CCTTTCCCCC	TCTTCTAAAA	CATAGTTTTT	GAAGATCTAA	CGCAGATCTT	9300
CAAGTGTCAG	TATGGCAAGC	ACTTTGCTGA	CTCACCAGCC	CATGACCTTC	TCCCTTAATC	9360
			CGTTTTACTT			9420
CTTCTAAAGC	AGCTTGAAAA	GCCATTGGGG	TTTCCAGCGT	GTGTGTGGCA	GTGTTACCAG	9480
GTTATTGTGA	TGGGACAAGT	TCTTATTCTC	TTTCTTCTGA	GGAGGTACCC	TGGAGACCTT	9540
GGGGAAGTGG	GGGTGGTAGG	GAGGTTTATG	GCATTGGGGC	AGGGAGTGAA	GAAGAGATTT	9600
ACTGCTGAGA	GCAAAAGGAT	TGTTAGATCC	AACAATCTAA	CAAAAAAGGT	CAAACTTTTT	9660
TTTCTTTTAT	GACCTTAGTT	GTGATAACAG	AAAAATAGTA	ATGTAAGTGA	TGTCCACTTC	9720
ACAGAATCCT	CATAAGATAT	TCAAGACCAT	AAATGTGGGC	CACTCTTACT	TTGATGCCCA	9780
GTAGGGGGCC	CCTGAGCAGA	TGCAGCTTAG	TTAATAGGAT	GCTTGCCCAC	CATGTTTTGT	9840
ACATGTTCCA	CCCTCAGTAC	ACAGCCAGGC	ATCGTAGGAA	ACACTTGTAG	CCCCTAGCAC	9900
TTGGCGGGA	GACCAAGAGT	TCAAGTCCGT	TTTTGATTAT	GTAGTGAGTT	CAGGGTTAGC	9960
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GTATGTCAAG	TGACTTTCTA	GACGCAGATO	TGGCATCGAA	CTAGAACTAA	CATTATTGGG	10140
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GCCTCTTTGG	ATTGCTTACT	GAGCTGCAGC	TTTGGCTCCA	AGAACTTATT	ATGGAGATGG	10200
GCATGGTGGT	AACAACTACA	CTACAGAAGA	CTACTACTTT	GAGACCAGCC	TGTACCAGAG	10260
CCTGGTGGAT	ACAGCTCAAT	GGGAGAACAC	ATATTGAGCA	TGTACAAGTC	CTGAGTTCGA	10320
TCTTCAGTAC	CTCGAATATT	GGCCAACTAA	AAGGAATGAA	TTTAGGGGTG	GGAATAAAGT	10380
TCAGATAGTA	GAGTGTCTGG	CTAGCATTCA	CAAAGCCCCA	AGTTTGACCT	CCAGCACTCC	10440
AGAACCTGGA	TGTGGTAGAG	TACATCTATG	ATCCCAGCAC	TCAGGAGAAC	TTCAAAGTTA	10500
TTCCAACCTA	CATAATAATA	CAAGACCAGC	CTGGGCTACA	CAAGATCTTA	TCTCAAAAAG	10560
CONTROCTA	AAACTGGGGA	CAGTTTTCCC	TCTGGGAGTG	ATATCTAGCA	GTGTCTGGAC	10620
CITIOGITIC	TOTOTOTOTO	ACCAAATCCT	GGATACTGGC	ATAGAGTGGG	CTGAACTCAC	10680
			CAAGGCCAAT			10740
			AGGAGTTAGA			10800
			TTTTGGTTCT			10860
CIGICITGIG	GGTCTTTAAT	GGCATIGIGA	CTAAGTAAGA	AGTCATCATT	TCTTTTCGGT	10920
ATTGAGATTT	GAACTAGGGT	CTIGTGCATG	TCTCTCCTTG	ACTOTGCCAC	TGTGCCATAT	10920
TCATCTCCTT	CATCATGGGA	CTACATATGT	GAGCAGTTTT	ACTGTTTTTC	CTTCTTCCTT	11040
GTGTTTTACG	CAATACCTGT	CCTGATATTT	CTTGCTGTAT	TGTCACTGTC	CCATCTTTTG	11100
AAAATTTCAG	GCTCTGAACA	GAAATGAAGC	AAATCTTCTG	ACAGTAAATG	GAGTTCCCTG	11160
AACTTCCAAA	CTGCCAGACA	GAAGCAGAAT	GTGTCCTCTG	TATGCCTGTA	ATTTTTTCTG	11220
TCCTTGAGTT	CTCTGCCTGC	CTCCTCTAAA	TTCTAAAAAA	AGAAAGAGCA	AAAACAAACA	11280
GACAATAAAA	AAACTTGCAA	CTTTTTTCAG	AAGCCACAAG	ACTGTAAAAG	GACCAACAAA	11340
CTGCTTTGCC	TCTGTGTGCC	TTGGTTTCTC	ATTGGTAAAG	GAATGGTAAC	ATCTTTCCTG	11400
GGTTGTTTTG	CAATGCTGGG	GATAGAATCC	AGGGCTTAGA	GTATATTAGG	TTCCCTGCCT	11460
CTAAACTATA	TTCTCTAGTC	TTAAAAGTAT	TGTTTGCATT	GTTACTGTGT	TTTATGGTGG	11520
GGGGATGGGA	ACCCAGGGAC	TGTAGCTTAC	TAAGTGTTCT	GCCTGTGGGC	TATACCCTAG	11580
CCACCTCCTA	GGACTTTGCT	GTTTATTTAT	TTATTTAGTT	TAGGGCTTTG	TTATTGATTT	11640
			GAGAGTAATT			11700
					TCCAAGGCAA	11760
GTGTGTGTCC	AGTATTGTTC	TGGGAACCCC	TCCTTCCCTG	CAGGTTCATA	GGAGCAGAGT	11820
COTTTTTCTCC	TTGTAAAATC	TGCCAAGAAC	TGGAATGTCC	TGTCTAGGCT	CTGCATCTTA	11880
			ACATTCATGT			11940
			AGGATTTCTC			12000
			TTGTAATAGT			12060
TORIGICCCI	CTACTCCCAT	TCAAACTCAG	GTCTGGACAG	CTCTTATTCT	CAGCTGAGCC	12120
					CCTATTCTCA	12180
			CCAGGGTTCC			12240
			GCAGTCTTGT			12300
						12360
					TTTTTGGCCA AGATGAGGTT	12420
			TTTTTCTGTT			12480
TAACTTAATT	GCAATTTAAA	AAGAGGCAGC	TTGCTGTCCA	GGAGGAATGA	CACAAACACT	12540
					GAAAATGTAA	12600
					TTTCCTCTAA	12660
					ATCCACCAGA	12720
					AATTGAACTC	12780
					GGCCTTTATT	12840
TTCCTTTTTT	TAAAAAAAAA	ATAAATGAAA	AATTAACTTT	TATTTCATGG	GTGTATATAT	12900
GTATGGGCTC	AAACATGATA	TATGTGCATG	GGCTCACACA	TGCAGTGGTG	CATGTATAAA	12960
AGTCAGAGAC	AACTTGCAGA	AGATGGTTTG	CTCTTTTCAT	CATATGGGCC	CTGAGGATTA	13020
					TCTCAACAGC	13080
TCCTCACTTT	ACCTTTTTAT	TTAAAAAAACA	AACAAACAAA	CAAACACCAA	CCCAGCCTCC	13140
CACACAACAA	CGAAAAGATC	TCATGTAGCC	CCAGGGTGGC	TTTGAACTCC	CCATATAGCT	13200
TAGGATGACT	TTGAATTCCT	AATGTTCTTG	CCTCTACCTC	CTAGTTACTA	TGCCTGGCTT	13260
CTTACCATAG	AATTTAAGAA	ATTATCTAAG	GTAAAGTGGT	GTTATGTGCT	TATAAGCCAG	13320
					AGGTTACAGA	13380
GGATCTCATC	AAGAAATCAA	CATTCAATTT	TCAATTATTT	CTTAAATTTT	TTGAGGTTGG	13440
GCTGGAGGGG	TTGGTTAAGA	GCACTGGTTG	GTCTTCCAGA	GGACATGAGT	TTGATTCCCT	13500
GTACCCCACA	TGGTGGCTCA	CAACCATCTG	TAATTTTAAT	TCTAGGGATC	TAACGCCCTC	13560
					AAACACATAA	13620
ACATAAAATA	AATAAATTAA	AATTTTGAAA	GTTTTTTTG	GGTGGAAGGT	ACTTTTAAGT	13680

				AGTTTTTAAT		13740
TGTTTGTTTG	TTTTCTGTTT	GGAACAAGGT	CTTGTGTATC	CCAAGCATCC	TCAAAGTTGT	13800
				CCTTCTTGAG		13860
TTAATATAGG	CAAAATAAAC	TTTAAACTTT	GTTTGCTGTG	CAGGTATATA	TGGTGTGCAA	13920
GTGTATCTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGAGA	GAGAGAGAGA	13980
				TAACTTGTGG		14040
CTTCTACCCT	GTGGGTCCCA	GGGTAAACTC	GGGTTATAAG	GCTTTGCACC	CTTTTTCCCA	14100
				TTGGTGGCAG		14160
TTTGAATCCC	ATCTGAAGCT	TGTTTTTGTT	GTTTGGTTTT	TAAGGCAGTC	TTAACTGTGA	14220
				CCTCCCAAGT		14280
				TTTTTTTTTT		14340
				TGGTGTCAGC		14400
				TGGGGATTTA		14460
				CCCAGCTCCG		14520
				AAGCTCAGTT		14580
				AGGCATGGCG		14640
				GAACTTGCTG		14700
CTAGTTTAAT	TGGTGAGCTC	CAAGCTCAGT	GAGACCCTGT	CTCAAAAATA	AATGGAGATG	14760
				ATGTTACTCC		14820
				ATGAACAGAT		14880
				AAGTGTGTAC		14940
				AATGCATTCA		15000
				ACACTCCATT		15060
					TTTTTCCCAA	15120
				GTGCTCCCTG		15180
				ACTGGGGATT		15240
				TCTTTGCCCC		15300
				TAAGCATCCA		15360
				TTAGGTGTAA		15420
				TATTCTGGAA		15480
				GGGACCGAAC		15540
				CAGCCCCAAT		15600
				TGCAACACTT		15660
				ATCTATCCAT		15720
					GTATTTATGA	15780
					GGATCATATG	15840
					CATTTAAGAT	15900
				AGTCCCAGCT		15960
AGAGGCAAGT	AGATCCGAAT	TCTCGCCCTA	TAGTGAGTCG	TATTAGTCGA		16011
					+11,795 (1st	intron)

## SEQ ID NO:17

## The 5' (-5086 ) and 3' limits of the Human SM-MHC Promoter-Enhancer LacZ Transgene Tested in Transgenic Mice

5 The number in the left margin refers to the position within an undefined BAC sequence contained in the public database (Accession # U91323 in GenBank). The start site (i.e. +1 position) of the SM-MHC gene corresponds to the BAC position 143,590.

						CTTCTTTTTT	
10						TGTGATCTTG	
						CTCCCAAGTA	
						AGTAGTGATA	
	138721	ATGTTGGCCA	GGCTGGTCTC	GAACTCCTGA	CCTCAAGTGT	TCCCTCCACC	TTGGCCTCCC
	138781	AAAGTGCTGG	GATTACAGGT	GTGAGCCACT	GTGCCCGGCC	AAAAAATATT	AAATCTTGAG
15	138841	GCACATGCAG	GAGTAAGCCA	TGCTCAGACC	CAATCTTCGA	TGTTACTAAA	AATTGGAGGG
	138901	GATCACACTT	CATGGTTTTG	TTTTGTTTTG	TTTTTTTGAG	ACAGGGTCTT	GCTCTGTTGC
	138961	CCAGGCTGGA	GTGCACTGGT	ACGATCACAG	TTCACTGCAG	CCTCAAACTC	TGGGGCTCAA
	139021	ACAATCCTCC	TACTTCACTC	TCTAGTTGGG	ACTACAGGCA	CACACTGCTG	TGCTCGACTA
1 .	139081	ATTATTATTA	TTATTATTAT	TATTATTATT	ATTATTATTA	TTATTATTTT	GTAGAGACAG
20	139141	GGATCTTGCT	ATGTTACCTA	GGCTGTTCTT	GAACTCCTGG	GCTCAAGCGA	TCCTTCCGCT
ipal .	139201	GCAGCCTCTC	AAAGTGCTAG	GATTACAGGC	ATGCCCAGCC	ACTTTGGGGC	TTTTTTAAGC
						GCTGTCTTGT	
171						ATGCCAAGGA	
ing.	139381	ACAGCACTCA	GTCAAAGTGA	CATTTTAAAA	AGAGACTATT	GCCTCCTCCA	TCTTAAAAGA
25.	139441	ACTGACCTTT	TGAGCCATGA	GAAATGAAAC	AGAGGCATCT	GATCGAATGA	TAACAATGCA
ILI						CATATCTATT	
in	139561	TAAGTGAACA	TACTGTCCCT	GCCTGCTTCC	AGAGGGTACT	AGAGAGGTCG	GAGATGGTTC
1						AAGGTACTTG	
pmo;	139681	TCTGATCATC	TTTGTTTTTC	CTTGAGAAAA	TGCGCTCAGA	GAGGTTTACT	GACAATCCCA
30 <sup>-1</sup>						CTCAGACTGC	
ale.						CCACTGCTGT	
IL						GAGGGAATTA	
Sant Tark						TAGAGTGCAG	
land.	139981	ATAGTTCACT	GTAGTCTCAA	CCTTCCAAGC	TCAAGAGATC	CTCCTACCTC	AGCCTCCCTA
361						TATTATTTAT	
4	140101	AGATTGCATC	TCACCATGTT	GCCCAGGCTG	GCTACTTAAA	AAAAATTTTT	TTTTTCAAGA
						GAGTCTCAGC	
	140221	CTCTGCCTCC	CAGGCTCAAG	TGATCTTCCC	ACCTCAGCCT	CCCAAGGAGC	TGGGATTACA
	140281	GGTACCCACC	ACCACACATG	GCTAACTTTT	TATTTTTGT	AGAGACAGGG	TCTTGCTATG
40						TCCTGCTTTG	
	140401	GTGCTAGGAT	TACAGTTGTG	AGCCACCATG	CCTGGCCTTG	GCCACTTTAG	TTTTGCTTTT
	140461	TTTTTTTTT	TTTGAGTTGG	AGTCTTGCTC	TGTCATCCAG	GCTCCCAGGC	TGGAGTGCAG
	140521	TGACACAATC	TCAGCTCACT	GCAACCTCTG	CCTCCTGGGT	TCAAGCAATT	ATCCTGCCTC
						GCCCAGCTAA	
45						TCTTGAACTT	
						AGGCAAGAGC	
						GGGGTAGGTG	
	140821	GTAAAATTGA	GTGTTACAGT	CTCCAGTTGT	TAATCACATT	ATAATTATTC	TCTTTTAAAA
	140881	GTTACCAACA	AGTTATTTAA	AGAATCGAAT	GGAACCCTTT	GGAAATACAG	TGTTCATGCC
50						TAGATTCCGA	
						CCTTCCGTTA	
						CTTTTACAGC	
						GCTTTACCCC	
						GCCCATTGCA	
55	141241	CAGGCTCAGG	AGTTTCCAGG	GTGAAAACCA	GGTAAGCTTG	ATGTTGGAAG	GATGAAGAAG
						CTGGGAGCCT	
						TTGGTTTCAT	
	141421	AGTAACAGCA	GCTCACATGA	. AGCGGTGCAC	CATGTTCATT	TTACATGGAT	TCATCTCAAG

					,		
	141481	GACTGCTTAC	AAAAAGGCCA	GGAAGTAGCT	GATGTTCTTC	CCATCTTACA	GGTAGGGAAA
	141541	TTGAGGCATG	GAGAGGCAAA	GTTACTTGCC	CATGGTCATA	TAGGTAGAAA	GCAGCACTGG
	141601	CAGATTCAAA	GCCAGACATC	TACTCTCAGA	TACACGCCCT	GGGCCTCAAG	GCCAGTTTGC
	141661	CTGGGCATTT	CCCTTTAATG	TCTCCTCTCT	GGAAGTGAAT	GGTGTCATCA	GAAAGGTTCC
5	1/1721	AGTGCCAGCA	CCAATCAATG	ACTGTCCCAG	TGAGAGCTTG	GTCAAATCCC	TTTACCCCTG
	141781	CAGGGACTCA	ATTTTCTCAC	CTGCAAAATG	GGGGTATTAA	TAAAGCCACC	CCCCGCACCC
	141841	CCGGCCCCCA	GCCCCTCCAC	CTGGTTGCAA	GAGGAGTGGT	TGTAGACTAA	GGGCCTGCGT
	141901	CAAGTACAGA	ACCCAGGAGG	GGTCTGCCCA	ACTTTAACCC	TCTCTCCAAA	TCCTCTAGCC
	1/1961	TCAACCACCA	GAAACCCACG	TGGGACTGGG	GGCTGCCCCC	TTCCGGGCCT	TCCCCAAGCA
10	142021	GAGGGGTCCC	CATCTAGCCC	CGCGGGGCAA	CGGCGGCCGG	TGGCTGCGTG	AAGGGCCCCC
10	142081	TCCCCCGACG	CCGGGGAGCA	GGAAGGCCAC	TCGGCACCAT	ATTTAGTCAG	GGGGAGCCGG
	142141	CAGCCCAGAG	CTGGTATGCG	GCGCTGGGAA	TTCCTGCAGG	AAGGAGTCCG	CGCCTGCCCT
	142201	TTTTCCCTTC	TCTCCCGCCC	GCCGCTCCCG	CCGCTCCCGG	GGAGGGGGAC	CGGCCCGGCC
	142261	CGGCCCGGCC	CGGGAACCTC	GGAGGAGCTG	GTGCCGCGCG	GGGAGCGGAG	CGCCCGGGCT
15	142221	CCCCCCGGGT	CCCCGGCCTG	GCGCGGGGCC	AGCCCACCGC	CTCGACTTCC	TTTTATGGCC
13	142381	TGTGTGTGCG	TGCGTGGACA	GGAGCGGGGA	GGGAGGGACG	GGGAGAAGAC	GGAGAGCCTG
	142301	GGGDAGAGAG	AGAGAGAAAG	CGCAGAGATA	GGAGTGAGAC	ACGCGGGAGA	GATGGAGAGC
	142501	AAGAGACACA	GAGACCAGAG	ACAAAGTGAG	ACAGGAGGGA	GAGACAGATA	CATCGACAGA
	142561	TCTAGAGAAG	CGAGAGGGAC	AGAGACAAAA	GATAGAGCGA	GAGACAGCAA	TGATCAGAGT
20	142501	CACAGACATG	CAGAGACAGT	GGCAGAGACA	GAGCGAGAGA	GCCTGTGATG	GAGAGAGACA
20	142021	CCCAATCCAA	TTTTACCCCA	GGAATCCTTG	GGGAAGGGAA	GTTGTTGAAG	GGAACTCGCA
i-1	142001	CACTCTCCCC	CCACACCCAC	TTTCTCCTTC	GATCTTGACA	CTTGCATCTT	GTAAATAACG
lauk	142741	MA AMMA MOAC	CCCCACCCCC	TTCCCCCATT	TTGTAGCTAT	GGACACCAAG	TCTCAGAGAA
ĬΠ	142801	CTCAACTCAC	TTGCCCAAGG	TCACGCAGCT	GGCGAGTGGC	GCACAGGGGA	GGGGGACAGC
25.	142001	TCA A ATA ATC	ACACTCCCCT	TATTTTTAT	TTTTATTTGT	ATTTTGGTCG	TGGTGATGTG
	142921	COMMANDATIC	CACATCCCAA	CTTCCCAAAA	CTADADACTT	CCCCTTCCTG	CACGGTTCCC
10.	142981	A COLA A CCCTC	COCCCTCCT	GT TGGGAAAA	TTGCAAAGTT	CAAGAAATCC	CCTTTCCCTA
111	143041	AGCAAGGGIG	TCCACACCCC	CCCCTCTTTC	CAGACAGTGC	GATGCCAATA	AAATGGGAAG
(7)	143101	TO COCT TO ACCO	CATCTCAACC	CAGATCCACC	ACAGCCCCGA	CACGGGGAGG	AAGAGGTTAA
ah	143161	* COCETEGGA	CCCCCAACC	ACTCAGGGAA	GACGTTCTCA	AGCATCCCGC	ACAGACACTG
30	143221	CCTCCTCCAC	CCCCTTTTCTC	TAGGGATCCG	GAGCGTCTGC	GACCGCCTGG	GGCCGGGGCT
1	143201	CACACTCCCC	TCCCTGTGCG	CACCTGTTCC	GTGCGCCCTT	GTGCGGTGCG	CACCTGTTCC
is i	143341	GROAC ICCCG	CTCCCTGTGCG	CCCCAGCTCC	TTGCGCTCCC	GCCGGGGGTG	CGCCCTGCAG
1500	143401	CCCCCCCCCCC	GAGGGGGGCCG	CGAGGGACCC	TCCCCAACTC	CACCCCTTCG	GCCTCCTCCC
35	143401	CTTTCCCACC	CGCGGGCAGC	TCCGGGTCTA	TAAAGAGAGG	CGTCCGAGGA	CGCGCAGGGA
	143521	CITICCCAGC	TPA	NSCRIPTION S	TART SITE +1		
T.J	142501	CA TITTCCA CC	CTCCGGCCTG	GGAGGTGCGT	CAGATCCGAG	CTCGCCATCC	AGTTTCCTCT
	143561	CCACTACTCC	CCCCAGTTGG	AGATCTGTAA	GTAGTAGTTG	TCATTCTGGG	GGCAGATTGC
	143041	ACCCCACCACCCC	CCCCACTIO	GTCCTATAGG	GTATTCTATA	GGGGCTGGGG	TGCACTTAGG
40	143701	COTTOCOTOTT	GTCAACCTCC	TAAGGGCCAT	GGTGGGGGCA	GAGTTGTGAT	TTGGATCTCT
40	143701	CTCTCCCTTA	TCGTCTTAGA	TTATCCTAGA	CTTTCCCCAA	ACAGCATTTC	TTAAGATTGC
	143021	CACTGACATA	TACCATTTC	GGGGTGCTTA	TTAACGATAT	CAATGCCTGG	ACCCAACTCC
	143001	ATTTCCCAAC	TACCATITIC	CCAGAAAAAC	TGCCTTAAAA	AAAAAAAAT	TAGTCCCGAG
	143341	TOATTOTTOT	TAAGAGGCTA	ATCCAGGAGA	TATGCTCCCT	TGGAAATCTC	AGAGGTCCGG
45	144001	TCCACACACAAT	CARGGCATCT	CACTTTTATT	CTAGGCACCA	AAAAATTTAC	AGCTGAACTT
43	144001	CACTCAAAA	TCACCCCCCC	TCACACAGAA	GGGCAAAGTG	AGGCTCCTTG	TGGATTTGAC
	144121	COTATTCCAC	ACTTCTCTCTC	ATAATGCATT	AAATCAGTTA	AAAACACATG	GGCATAGGCT
	144101	TACCAGAAAG	CAGTGTTGTT	Chahahahahal	TTTAATCAGT	TTAGGGGAGG	TTCTTCTATG
	144241	THUCAGAAAA	CTCCCACATA	AGGCTGGTTG	TGATCTAGTT	TGTTACAGCC	CACTTTTTCC
50	144301	TORGRACCO	Ι ΑΤΤΑΔΑΔΑΙΑ	AAAAAAACAA	CTCACCCAGG	TTGACCCCAA	AGGGCCCCCA
50	144301	GATACCCAG	TCCCCTCCA	AGTCTCCATT	TGCTTCCACG	ATCTGCAGGT	GCGTTAGGTA
	144421	ACATTACACAC	AGAATTTCCC	GCAGAGCCAC	CTGTGTCAAT	GCCACTCTCC	TGCCCAACCA
	144401	ADMITACACI	ACCACACA A	GTGTGGCTAC	TGCCTGTTGT	AAGTTTTCTT	CCAGCACAGG
	144541	CTCTCCTACC	CATTTTCCC	CTTGAGAAAA	GGTACCATCC	AAAGCCATGC	TTGTCAAGAA
55	144001	CTANANCAA,	י עטעניייע מייע	ACCCAAGGTG	GGAGTGTTTZ	GTTGCAGTAT	GAAGAACTGA
33	144001	CACATTANA	L GGLGVVGLG	r ccarccaaa	TTTGGCAAA	AGAATGCAGG	CTATTAATAA
	144/21	ACTICOTTO	T ATACTTTTT	r GTTTCTTTGZ	TTTACTCAAC	GATACTATTT	TAGAATTGTT
	144.781	CACACACAC	ACTTGACCC	CAACTGAAAC	TCATTAGGTO	GCAGGGTGTG	AAATAAGATA
	144041	CAGAGACGG	TTTGAAGGA	ATTGATGTT	TCCCTTTGAC	ATAGCTACCO	TTGATGGAAC
	144901	OAGMIIII	, IIIOAAOGAI				

		ACTTCAGTGC					
		CAACTTCATA					
		GAGGTAAAGT					
	145141	AAGTTCATAC	CCTTGACCCC	ACTATCTTTC	TTCTTTACCA	TGGACACAAA	CTTGTTGGGG
5	145201	TCAGGTTTCT	GGTGGGACTA	AATGCTTCCA	ACAAAGTAAA	TGTTTATCAC	CGTGTCCTTT
	145261	GAAGAAAACA	TAAACTGACT	TTTTGCACAT	TTAAAATAAA	AGGCACTGTT	TGTCCCCTGA
		TTGAGGGGGT					
		GAACGTGAAC					
		TTTTTTTTTTT					
10		TTGTTATCAT					
10							
		AGCGTTTTCC					
		CCGGTTGGTC					
		GGAGAAACCC					
		CTTATTCAGA					
15	145801	GGTCTTGAAT	CCAAACAGGT	GGGTCTTCCA	CGTTAGGCAC	AAGCGTGTAA	TTCCAAGAGC
	145861	AGATATATAG	TAGATTTTTC	TTGAAAACCA	AGTTCAATAT	TCAATCCAGT	AGAATCATAG
	145921	AAGGCCATAA	GCAAATTTAA	AAATCATCTC	CCGCACCTCC	CCAAACCTCA	CTTTCTCATC
		CGGGAAATGG					
		CTAAACGCTT					
20		TATTCTAACT					
20		GCTAACCAGT					
(3							
[2]		CAGATTACCC					
UT)		CTGGCCCCTG					
		ATGTTTGCTC					
25		CCGTTAAAGG					
30.0		TTTGGGCTGA					
	146521	TTGGGAATGT	TACAAATTCC	AATTACATTT	GTTTAGGGTT	TTGTTTGTTT	GTTTTTGAGA
(71	146581	CAGAGTCTTG	CTCTGTCGCC	CAGGCTGGAG	TGCAGTGGTG	CGATCTTGGC	TCACTGCAAC
	146641	CTCCGCCTCC	TAGGTTCAGG	CACTTCTCCA	GCCTCAGCCT	CCTGAGTAGA	GAGTAGCTGG
30	146701	GTTTATAGGC	GCCCACCACC	ATGCCTGGCT	AATTTTTTGT	ATTTTTAGTA	GAGATGGGGT
tack		TTCACCATAT					
- 		TCTCCCAAAG					
fLI.		ATGGCATACT					
par aller		TTTCAACTTT					
35		AAGAATTTGA					
		GCTGAAAGGG					
M.							
		CAACCTCATC					
		TAATCCCAGC					
40		CAGAGTGGGC					
40		ATGGTGGCAT					
		TTGAGCCCAG					
	147421	GCAACAGAGT	GAGACTCTGT	CTCAAAAAAA	AGGTGAGGGG	CATAGAACTT	TACTGTACCA
	147481	GGCTGAAAAA	TACAAGGCCC	AGAGAGGCA	AGTGACTTGC	CTAGCATCAC	CCAGCGAGTT
	147541	TTGGGCAGAG	CTGAGACTTG	TAACTCGAAG	ACCTAAGGAT	CTTCCACAGG	CTAATGAATA
45	147601	GCTTGTTTGT	GCTCAAGGGA	TGAAGCAGTG	AGTTGTTAGG	ACAGGACTGT	GAATAGGGCT
	147661	GACATATTCA	GATGTGTCAA	ACATCGCTAA	TGCCATCTCT	GAGTAAATTA	GGCTTCAAAC
		AGATCGGGAT					
		TCAAGACCCC					
		CTTGGACTTT					
50		TGCTGAGTTA					
50		ACATTGCAGA					
		CAGGTGGGTC					
		ACCCTATCTC					
		CAGCTACTCG					
55		GAGCCGAGAT					
		AAAAAAAAA					
		ATCCTCTTGG					
		AGGATGGTTT					
	148441	AGGAACGTAC	AACCTAGATC	CCTTGCAGGT	GGAGTTGGCA	ATAGGGTTTG	TGCTTCTGTG

	148501	AAAATCTAAT	GCTGCTTATC	TGACAGGAGG	CGGAGCTTAG	GCAGTGATGG	TCACTCACCC
	1 40561	* addmoddam	COTOCTATOT	CCCCTCCTTC	CTAACAGGCC	ATTGACTGAT	ACTGCAGCAC
	140621	AACCCTTCCC	CACCCCTGAC	ATAGGAGACT	ATACATTTAT	TTTAAGCTGT	GGTATGCCAG
	140001	7 7 7 7 M M M M M 7 7 7	<b>サカサカカカカペカペ</b>	ACTCCCCCTT	TTAGGGCCAG	AAATAATCAG	TTCTTGCTCG
5	1/07/1	CTTCCACAAC	CATCCTTCAC	AGGGGCTACC	GTAACTCTTG	CCAACCAAGT	TCTCTTGGTT
	140001	ACCADOCA A A A	AATACTCTTA	$TCC\Delta TT\Delta \Delta C\Delta$	GAACTTCTTT	CTGGAGTTAC	TIGAAACCAI
	140061	TOOTATTOAG	ATGATTAGGC	AGATGTCACA	AGGCAATAAG	AATGTGACAG	GTTCACCATT
	140001	C A COMMONDO	CCTCTAAAAC	TCDACTAGGG	CTTTCTTGGG	AACAAGCCCT	TGGGAGGTGG
	140001	GGGGATTCTC7	A TO GTG A GGG	CACCCTACAA	ATGGTGGAGT	AGGGTCAGGG	GCAAGAAAGG
10	1/00/1	CACTITICIC	TAAGAATTAA	TCGGGTGTCC	ATTTACTCTT	AGCAGAAAAC	TAGGATTAGA
10	140101	mmamaa a mma	TACTCCTCAC	TCCAAATTTT	ACAAGTGGGG	GTCTTGCATT	TACCTTCCAG
	1.01.51	ar compagne	A TROTTEN COAC	CANANTACCA	ATAGCAGGTG	ATGCCACCTT	ACAGAGCGCT
	149221	TACCACACAC	TGAGATGGTC	TATATAGGAA	GCTGTCTGGC	CTGATACCTG	ATGAATACAA
	140001	GGGGGGGT AT	A A ATA CACTC	CCTCTTATCA	ATAATAGATC	TAAACTGCCT	TTTTGGTACT
15	149241	ACTROCOGACO	TGCCAAGCAG	GTGCATTTAG	AGTGCCCAGT	GCCTCTCCCT	GCGACACATT
13	140401	max macamaa	CTACACCTCC	ACCAGGCCTT	GAGCGAGGAT	TTCCACTGCA	GAGGTCCTTC
	149401	CACCTCCCCA	ATTGTGTTGC	AGATCAGGTT	CAGAGAACTT	CTGTTTTGCC	TGTGTGGCAT
	140501	THE PROPERTY OF THE PARTY OF TH	COURTAINTE	AATAGAGATG	GGATCTCACT	GTGCTGCCCA	GGCTAGTCTA
	149521	CATTCATIC	TTCAAGCAAT	CCTCTTGGCT	TGGCCTCCCA	TAGTTCTTGG	ATTACAGGTG
20	149561	TO A COA CTC	TATCCAGCCC	TTTATGACAT	TTAGAATATG	AGCAATTTTT	CTTTTTTCTT
20	1.0001	mmmmmmmmm	TTCACATCCA	CTCTCACTCT	GTCACCCAGG	CTAGAGTGCA	GTGGCATGAT
and a	149/01	COMPAGEMENT	TGCAACCTCT	ACCTCCCAGG	CTCAAGCGAT	CTTCCCACCT	CAGCCTCCCG
ind ind	149761	TITGGCTCAC	ACTACCGGCA	TCTCCTCCCA	TGCCTGGCTA	ATTTTTGTAT	TTTCTGTAGA
11/2	149821	AGTAGCTGGG	CACCATGTTG	CCCACCCTCC	TGTCAAACTC	CTAAGCTCAA	GCGAACTGCC
UT	149881	GATGGGGTTT	TCCCAGTGTT	CCCATTACAG	ACGTGAGCCA	CAGTGCTGAA	CCCTGCATGG
25]	149941	TGCCTTGGCC	ATAAGCAATA	CTCTAACATC	TGGTCTGGGT	CACTCTGTAT	TACTTACCTG
Trans.	150001	ADCTCCAAAA	ACATTTGGGT	TTTTGTCTCT	GGTCCAAAAT	CTTTAGCCAA	TGGCTTGGCA
U	150061	ALCICCAMAN CONTRACT	GAGGGAAGCT	GTTGACCAGG	TGAGGTGATG	TGCAAATCCT	ATACTCTCTG
(34	150121	CCCTCTCCCA	TATTTAATTT	ACTATTTATT	TATTTATTTT	CAAGACAGAG	TTTTGCTCTT
do	150241	CTCCCCCAGG	CTGGAGTGCA	GTGATGGGAT	CTCAGCTCAC	TGCACCCTCC	ACCTCCTGGG
30	150301	TITLE A A C C C A TI	TOTOGTTOCT	CAGCCTCCTG	AGTAGCTGGT	ATTACAGGCG	CCCACCACCA
leh	150261	OR COMOCOUNT	መመመመመመመመ ጥ	ጥጥጥጥልርጥልርል	GACGGGGTTT	CACCATGTTG	GCCAGGCTGG
11.1	250401	mamma a ama	OTTO A COTTOAC	CTTATCCCCC	TGCCTCGGCC	TCCCGAAGTA	CIGGGATIAC
iu E	150401	ACCCATCACC	CACCATGCCC	GGCCTAATTI	ACTTTTTATT	AATGCTGAAG	CAGAGAGGGC
35	150541	A A C A T C T T T T	CCCCCTGAGT	TCTTCTGGGA	AAAATGAAAC	TGATGGTAAA	ACAAACTAAA
	150601	CCAACCTGAC	ATTCTCAGTT	GGTCCAGTTT	CAGCCCTTTG	ACTGGGAGTC	ACAGACGGGT
L	150661	CCCATAAAAT	CGTAGAGCTG	GGCCAGCCTA	CCATTGATTT	ATTTTCCCTA	AATGAAAAAT
	150721	A CA A CCCCCCA	GAGAGGGCAA	GTGACTTGTC	: CAGAGTCACC	CAGCAGGTTT	GGGGCAAAGC
	150791	TGAGACTCGT	TACTTGACAT	CCTAAGGTCT	TCCAGAGGCT	AATGATTAGC	TIGITIGIGC
40	150941	TODADADATO	A AGC AGC CTG	GGCGCGGTGG	CTCATGCTTG	TAATCCTAGC	ACTITIGGGAG
40	150901	CCTGAGGCAG	GCAGATCGCT	TGAGCTCAGG	AGTTTGAGAC	CAGCCTGGGC	CACAAAGIGA
	150061	CACCCCTCTC	TOTACAAAAA	AATGCAAGAI	TTAAAAAATT	AGCTGGGTGT	TCTGGTGCGT
	151001	ACCRECATE ATTC	CCACCTACTT	GGGAGGCTGZ	GGTGGGAGAA	TGGCTTGAGC	CTGGGAGGCA
	151001	CACTTTCCAC	L AAAGCAGAGA	TCGCGCCACT	TCACTCTAGO	CTGGGCAACA	GAGCCAGACC
45	151141	CTCTCTCAAA	Τααρααααα	GAAGCAGTTC	: TTGGTCAGG#	CAGGACTGTA	AACAAGGCIG
45	151201	A CA CA CTCAC	ATGTGTCAAA	CATCGCTAAT	r GCCAAAGGTG	ACAGAGTCAT	TIGITITICAL
	151261	CCDDDCDTTC	GAGAAAGTTG	GACGAGGTG	A CTCACGCCTC	TCATCCTAGE	GCTTTGGGAA
	151221	GCCA AGGCAG	CAGGATCATT	TGAGATCAGO	AGTTTGAGAC	CAGCCTAGGC	AAAATAGCAA
	151201	CA CCCCCATTC	፣ ጥሮሞአሮአልልልል	ATA AGCCCGC	: CATAGTGGCC	CACACCTGAG	GIGGGAGGAI
50	151441	CCCTTGAGC	CATGAGTTTC	AGCCTGCAG	r aagctatgal	TGCACCACTC	CACTCCACCC
50	151501	TCCCCCATATZ	A GTGAGACCCT	TCCCCCAAC	AAAAACATTO	AGAGCAGCTC	TIGATGAGIG
	151561	አአርጥርጥአርጥባ	r CGTGGTCAGC	AGTTCTGGG'	r agtaatttc	GAGATGTCCT	TTCAGCCCTT
	151601	A CARCITICATION	T CACCACCTTA	AACATGAGC	R ATGGTGGAGG	AGGGAGGGT:	GGGAAGGTGC
	151691	ATCAACCTAC	2 ATGAAGAGTG	TCCCTGGGG'	r tgggccaac:	GGCGGTCCG.	r CTCTGGTCCA
55	151741	CTCTCTTCAC	" CTTGCCCCC	TCTGATCTT	C TGCAGTTGG:	ATTCCGAGT	I GAGTTTGACT
55	151001	1 3 3 CTC 3 C 3 C 6	TRECTETEDES	TTTAACTGC	C TTTCCCAAGA	A CAGCCCTTG	TTTTATTCTA
	15106	1 NACCTOTOGG	P ጥርጥሮ እስርጥርር	AAGCAGTTT	T GCCACCCCA	GGGACATCIA	A GCAGTGTCTG
	151001	1 CACACATTT	r ጥርአጥጥርጥሮልባ	r GAGTGGAGG	A AGGGGTGCT	A CTGGCATCA	3 GTGGGCAGAG
	15198	1 ACCAGGGATO	G CTGCGGAACA	A TCCCACAAT	G CACGGAAGA	CTCCCCTCA	C GACACAGAAT

					TGTGGCCAGC		
	152101	ATCCCAGCAC	TTTGGGGGGC	CAAGGTGGGA	GGATTGCTTG	AGGCCTGGAG	TTCAAGACCA
					ACTAAAAATA		
_					GAGGCTGAGG		
5	152281	AGAAACGTGG	AGGTTGCAGT	GAGCTGAGAT	TGCGTCACTG	CACTCCAGCC	TGGGTAACAG
	152341	AGCGAGACTC	TGTGTCAAAA	AAAAAAAAA	AAAAAAAAGA	CTTAGCAACT	ATTATTACTA
					TGAATTTTCT		
					CTGTGGCTAA		
	152521	GGCTCGTAGG	AGCAAAACAG	CTTTCAGGTT	TCCGGATCTG	CCAGAGACTC	AAGTGTCCTG
10	152581	TTGTGTGTTT	TGTGTCTCAA	TGAGGGAAAG	GGGAATATGT	AGCACCTTCC	AGATGGATTT
					TCTCAACCTC		
					CATGCTATGG		
	152761	GTCGAAGCTT	CTCATCCCCC	ATCTTGCTGT	CTTTTGACCA	AAGCAGATTT	TGCACGTCGT
	152821	AACTGTCAGA	GACATCAAAG	CCAGAGGGAA	TCCAGCCTGC	TCCAAGCTCT	CCTTTTTTTGT
15					TTTGTGTTTT		
13							
					TTATTTTTCT		
					GCAATTAGGA		
	153061	CACAGCGGCT	CATGCCTGTA	ATCCCAGCAC	TTTGGGAGAC	CGAGGCAGGC	AGATCACTTG
					AACATGGTGA		
20							
20					TGCCTGTGGT		
Dates.					GGAGGTTGCC		
(3)	153301	TGCACTCCAG	CCTGGGCGAC	AGAGCAAGAC	CCTGTCTCAG	AAAAAAAAA	AAAAAAAAA
and and					AACAAATGAA		
IT							
P I					CTTCATTATT		
25	153481	TTAATGCTAC	TGAACTGTGT	TTAAGTGGCC	GAGGTGGTGA	ATGTTAGCTG	TATTTTACCA
12.	153541	CAATTAAAGA	TAAGAGGGAA	GGAAAATGAA	GTGTACTTTA	CAACCAAAAA	AGTACGCTTG
46.1					TTTCAAGAGG		
14							
OT					AGTGGCATGA		
**					TCAGCCTCCT		
19	153781	GCACACTATC	ACAACCGGTT	AATTTTTGTA	TGTTTGCTAG	AGACAAGGTT	TCACCATGTT
Tang.					GGTTATCCTC		
pij							
iu					GGGTCTTGCT		
l full					TTGGCTTCTC		
1925 F05	154021	GTGAGCCATG	TCACCTGGCC	CAACAGTTTG	ATGAATTTTC	AGAAAGTGAA	CACTCATAGG
85					ACCCTCACAA		
P P					ATTCCTTATC		
111							
					ATAGTCACAG		
	154261	ACCTTCTTTT	GCTCAAGGAT	GTGTTGTGAG	ATGTCCTTTT	TTGTGGTGTG	GAGCTGTAGT
	154321	TTACTTCACC	TGATTCGAGT	CCTATTTTGG	GTGTTTGTAA	TGTGTCAGGT	ACTGTGCCAG
40					ATCTGACAAG		
-10					CCAGGTTTGG		
					CCAAGGCTGG		
	154561	GCTTACGGCA	ACCTCCACCT	CCCGGGTTCA	AGTGATTCTC	CTGACTCAGC	CTCCCAAGTA
	154621	GCTGGGGCTA	CAGGCACGTA	CCACCAATCC	TGGCTAATTT	TTAATTTTTG	TATTTTAGT
45					TGGTCTCAAA		
75							
					TATAGGCATG		
	154801	TTGTGATCAA	TCTTACTTCA	TCTTCACACC	CTCCCATTTC	TCTTACGCAT	CCTCCAGTTT
	154861	CTCTCTCTCT	CTCTCCTTCT	TTTTCTCTCT	CTCTCTCTCA	CACACACACA	CACGATCTGC
					GGGAATGATT		
50							
50					TTATACTATT		
	155041	AAGCCACTTC	TGTGACTATG	GCTGTCCAGA	AATAAACATA	ATTAAAACAT	CCAACAGTAG
	155101	TAAATGCTAT	TGGTTAGGAA	TGAGCGAAGT	GGCTTAGAGT	CACCGGAAGT	GAGAAAGGGT
					GGGGTGTCCT		
					CACACGTAAA		
55					GCGAAAAAAT		
	155341	TTTATGAATT	TGTATCGGGC	CACATTCAAA	GCCGTCCTGG	GCCCCATGCA	GCCTGTGGGC
	155401	TGCAGGTTAG	ACAAGCTTGG	TGTAGAGAGT	TTCATCTAAA	CTTCATGGCA	GCTCTGCAGG
					AGTAAATCTG		
	155521	CACCCAGAAG	CACGCATTCT	GCAG1'GGCAG	AGTCACGTTT	GAATTAGCAT	CTGATTGCAA

155581	AGTCTGGGTG	TCTTTACATG	ACTACAGGTT	ATCTTACCTC	TCAAGAGGAG	GCAACCAATC
155641	AAATGTTGCC	AGCACCAATG	AACTTGTACT	TTATTTAGGC	TCAGAAAGAT	CTTTTAGGCT
155701	AATGAAAATG	CCCTATATTT	ATGAAATGTT	CTCGTTCTCT	GTGGCTTTCT	CTTTTTTGAG
155761	ACAGGGTCTC	ACCCTGACAC	CCAGGCTGGA	GTGCAGTGAT	GTAATCATAG	CTCACTGCAG
155821	CCTCAAACTC	CTGGGCTCAA	GCAACCCTCC	TGCCTCAGCC	TCCTAGTAGC	TGGGACTACA
155881	AGCACGCATC	ATCATGCCTG	GCTGATATTT	TTTTTAAGGG	ATGGGGTCTT	GCTATAATGC
155941	CCAGTCTGGT	CTCGAACTCC	TGGGCTCAAG	CAATCCTCCT	GCCTTGGCCT	CCCAAAATAT
156001	GGGATTATAC	ATGTGGGCTA	CTGCCAGCCT	CTTTTCTTTC	AATTATTTTT	TAATCTATGG
156061	GTTCCCCTCC	TTTTTTTTTT	TATTTTATTT	GTTAAAGAAA	GAGAGTACTG	GCCGAGCGTG
156121	GTGGCTCACA	CCTGTAATGT	CAGCACTTTG	AGAGGCCAAG	GCCGGTAGAT	CACCTGAGGT
156181	CAGGAGTTTG	AGACCAGCCT	GGACAATATG	GTGAAACCCC	GTCTCTACTA	AAAATACAAA
156241	AATCAGCCAG	GCGTGGTGGC	ATGCACCTGT	AATCCTAGCT	CCTCGGGAGG	CTGAGGCAGG
156301	AGAATCACTT	GAACCTAGGA	GGTGGAGGTT	GCAGTGAGCC	AAGATCCCGC	CATTGCACTC
156361	TAGCTGGGCG	ACAGAGCATA	GTCTCTCACC	TTTGGGAGTT	TACTGCATTG	TTTAGCATGC
156421	TCTCCTGTGC	CTTGCATTTT	CCATAGACAG	GCGTCAGATC	TGGAGGCTTC	ATCACCTTCA
156481	TCCCCCATCT	CCATCCCCTT	TTCTTTTGAG	CAAGAATATG	TCATTAGTGG	TAACGGCACT
156541	TCCTGTAGTG	GCCCATCTGC	AGGCATGTAA	TGTTTATAAT	GTCTAGTCAG	CTCTCTCTTT
156601	TTGTGATGTT	AGGGTTAATT	AGTAGATTTA	GGTGATGGCA	GGCGGACCCA	TCCCTTAAAA
156661	ATTCCACAAG	AGCTCTTCAT	CTGATATAGT	CAGTCTTGTG	GTGGGGACCC	TAGACCAGCA
156721	TCATCATCAT	CACCCGGAAG	CTGGTTAGGA	ATGCATATTC	TTGGGCCCCA	TCCCAGTCCT
156781	ACTGACTCAG	AAGCTAATGC	ACCAGGAAAT	GTGAGCCCCA	TTGGCCTAAT	GGTTTTAGCA
156841	ATTACTGGTA	GAACTTGCCA	ACTTGCCAAG	ACCCTTTCTT	TCTTCCTTTC	TTTCTTTTTT
156901	TTTTTTTGAG	ACGGAGTCTC	ACTCTGTCGT	CCAGGCTGGA	GTGCAGCGGC	GCATCTCCAC
156961	TCACCCACTC	110100111001		GGTTCACACC		CTCAGCCTCC
157021				CACGCCCGGC	TAATTTTTTT	TTTTTTTTT
157081	AGTAGAGACA	GGGTTTTGCC	GTGTTAGCC ·	+13518		